

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("5726133" "6191081").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/13 18:41
S2	2	("6140282" "5569405").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/13 18:41
S4	13	(lubricant lubrication lubricating oil) and (zinc "Zn") adj di\$14dithiocarbamate\$1 and (\$16thiocarbamoyl\$21 (sulfur NEAR3 \$16thiocarbamate\$1) antioxidant anti adj oxidant)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/29 10:38
S5	1098	(508/363,364,365,371-378,443,444). ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:01
S6	66	(508/110-444).ccls. and (zinc "Zn") adj di\$14dithiocarbamate\$1 and (antioxidant anti adj oxidant) SAME (\$16thiocarbamoyl\$21 (sulfur NEAR3 \$16thiocarbamate\$1) phenol catechol resorcinol hydroquinone naphthol biphenol bi adj phenol phenolic) and (zinc "Zn") adj di\$14dithiophosphate\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/29 11:10

STN search
reviewed circled results, page 4.

THEXTON 10/666,350

Page 1

=> file reg

FILE 'REGISTRY'

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=> display history full 11-

FILE 'HCA'

- L1 340433 SEA (LUBRIC? OR LUBE# OR GREAS? OR ANTIFRIC? OR ANTIWEAR?
OR ANTICORRO? OR ANTIRUST? OR ANTIOXID? OR ANTI(W) (FRIC?
OR WEAR? OR CORRO? OR RUST? OR OXID?) OR SLICK? OR
SLIPP? OR OLEAGINOUS?)
- L2 25145 SEA ((GEAR? OR ENGINE# OR CRANKCASE? OR MOTOR# OR
TRANSMISSION? OR HYDRAUL? OR MACHINE? OR (2 OR 4 OR TWO
OR FOUR) (W) (CYCLE# OR STROKE#)) (2A) (FLUID# OR OIL#))
- L3 426575 SEA (SURFACT? OR BIOSURFACT? OR HYDROTROP? OR DETERG? OR
ABSTERG? OR (SURFACE(W)ACTIVE# OR WETTING#) (A) (AGENT? OR
ADDITIVE? OR COMPOUND? OR COMPD# OR CMPD# OR CPD#) OR
EMULSIFIER? OR DISPERSANT? OR SOAP?)
- L4 14544 SEA ?PHENOL? (3A) (ANTI(A)OXID? OR ANTIOXID?)

FILE 'REGISTRY'

- L5 1 SEA "ZINC DIMETHYL DITHIOPHOSPHATE"/CN
E ZINC DIETHYL DITHIOPHOSPHATE/CN
- L6 1 SEA "ZINC DIETHYL DITHIOPHOSPHATE"/CN
E ZINC DIPROPYL DITHIOPHOSPHATE/CN
- L7 1 SEA "ZINC DIPROPYL PHOSPHORODITHIOATE"/CN
E ZINC DIBUTYL DITHIOPHOSPHATE/CN
- L8 1 SEA "ZINC DIBUTYL DITHIOPHOSPHATE"/CN
- L9 4 SEA (L5 OR L6 OR L7 OR L8)

FILE 'HCA'

- L11 1942 SEA L9 OR (ZINC# OR ZN) (2A) (DIALKYLDITHIOPHOSPHATE# OR
DIMETHYLDITHIOPHOSPHATE# OR DIETHYLDITHIOPHOSPHATE# OR
DIPROPYLDITHIOPHOSPHATE# OR DIBUTYLDITHIOPHOSPHATE# OR
(DIMETHYL OR DIETHYL OR DIPROPYL OR DIBUTYL OR DIALKYL
OR DI (A) (ME OR ET OR PR OR BU OR ALKYL)) (2A) DITHIOPHOSPHA
TE#)

FILE 'REGISTRY'

- L12 1 SEA "ZINC DIMETHYLDITHIOCARBAMATE"/CN
E ZINC DIETHYLDITHIOCARBAMATE/CN

L13 1 SEA "ZINC DIETHYLDITHIOCARBAMATE"/CN
E ZINC DIPROPYLDITHIOCARBAMATE/CN
L14 1 SEA "ZINC DIPROPYLDITHIOCARBAMATE"/CN
E ZINC DIBUTYLDITHIOCARBAMATE/CN
L15 1 SEA "ZINC DIBUTYLDITHIOCARBAMATE"/CN
L16 4 SEA (L12 OR L13 OR L14 OR L15)

FILE 'HCA'

L18 4255 SEA L16 OR (ZINC# OR ZN) (2A) (DIALKYLDITHIOCARBAMATE# OR
DIMETHYLDITHIOCARBAMATE# OR DIETHYLDITHIOCARBAMATE# OR
DIPROPYLDITHIOCARBAMATE# OR DIBUTYLDITHIOCARBAMATE# OR
(DIMETHYL OR DIETHYL OR DIPROPYL OR DIBUTYL OR DIALKYL
OR DI(A) (ME OR ET OR PR OR BU OR ALKYL)) (2A) DITHIOCARBAMA
TE#)

FILE 'LREGISTRY'

L19 STR

FILE 'REGISTRY'

L20 0 SEA SSS SAM L19

FILE 'LREGISTRY'

L21 STR L19

FILE 'REGISTRY'

L22 26 SEA SSS SAM L21
L23 526 SEA SSS FUL L21
SAV L23 THE350/A
L24 0 SEA SUB=L23 SSS SAM L19
L25 61 SEA SUB=L23 SSS FUL L19
SAV L25 THE350A/A

FILE 'HCA'

L26 589 SEA L25

FILE 'REGISTRY'

L27 8 SEA L25 AND 1<NC

FILE 'HCA'

L28 156 SEA L26 AND (L1 OR L2)
L29 27 SEA L28 AND L3
L30 1 SEA L29 AND (OVER(A)BASE? OR OVERBASE?)
L31 7 SEA L28 AND L11
L32 24 SEA L28 AND L18
L33 18 SEA L28 AND L4
L34 14544 SEA L4 AND (L1 OR L2)
L35 705 SEA L34 AND L3
L36 1 SEA L29 AND (OVER(A)BASE? OR OVERBASE?)

L37 80 SEA L34 AND L11
 L38 93 SEA L34 AND L18
 L39 1 SEA L35 AND L37 AND L38
 L40 37 SEA L35 AND L37
 L41 12 SEA L35 AND L38
 L42 7 SEA L37 AND L38
 L43 0 SEA L40 AND L26
 L44 0 SEA L40 AND L29
 L45 0 SEA L40 AND L32
 L46 1 SEA L40 AND L41
 L47 48 SEA L3 AND (L11 OR L18) AND L4
 L48 48 SEA L47 AND (L1 OR L2)
 L49 0 SEA L48 AND L26
 L50 10 SEA L3 AND (L11 OR L18) AND L26
 L51 7 SEA L50 AND (L1 OR L2)
 L52 3 SEA L50 NOT L51
 L53 48 SEA (L1 OR L2) AND L3 AND (L11 OR L18) AND L4
 L54 1 SEA (L1 OR L2) AND L3 AND (L11 AND L18) AND L4
 L55 156 SEA (L1 OR L2) AND L26
 L56 28 SEA L55 AND (L11 OR L18)
 L57 7 SEA L56 AND L3
 L58 3 SEA L56 AND L4
 L59 3 SEA L55 AND (L11 AND L18)
 L60 14544 SEA (L1 OR L2) AND L4
 L61 705 SEA L60 AND L3
 L62 166 SEA L60 AND (L11 OR L18)
 L63 7 SEA L60 AND (L11 AND L18)
 L64 48 SEA L61 AND L62
 L65 2 SEA L61 AND L26
 L66 3 SEA L62 AND L26
 L67 2240 SEA (L1 OR L2) AND (L11 OR L18)
 L68 166 SEA L67 AND L4
 L69 28 SEA L67 AND L26
 L70 51 SEA (L1 OR L2) AND (L11 AND L18)
 L71 7 SEA L70 AND L4
 L72 3 SEA L70 AND L26
 L73 18 SEA L30 OR L31 OR L36 OR L39 OR L42 OR L46 OR L51 OR L54
 OR L57 OR L58 OR L59 OR L63 OR L65 OR L66 OR L71 OR L72
 L74 24 SEA (L33 OR L41) NOT L73
 L75 35 SEA (L29 OR L32 OR L56 OR L69) NOT (L73 OR L74)

FILE 'REGISTRY'

L76 465 SEA L23 NOT L25

FILE 'HCA'

L77 10927 SEA L76
 L78 37 SEA L77 AND (L1 OR L2) AND L3
 L79 9 SEA L78 AND (L11 OR L18)

L80 1 SEA L77 AND (L1 OR L2) AND L11 AND L18
 L81 106 SEA L77 AND (L1 OR L2) AND (L11 OR L18)
 L82 9 SEA L81 AND L3
 L83 17 SEA L81 AND L4
 L84 20 SEA (L79 OR L80 OR L82 OR L83) NOT (L73 OR L74 OR L75)
 L85 17 SEA L73 AND (1840-2002/PY OR 1840-2002/PRY)
 L86 23 SEA L74 AND (1840-2002/PY OR 1840-2002/PRY)
 L87 34 SEA L75 AND (1840-2002/PY OR 1840-2002/PRY)
 L88 20 SEA L84 AND (1840-2002/PY OR 1840-2002/PRY)

FILE 'LCA'

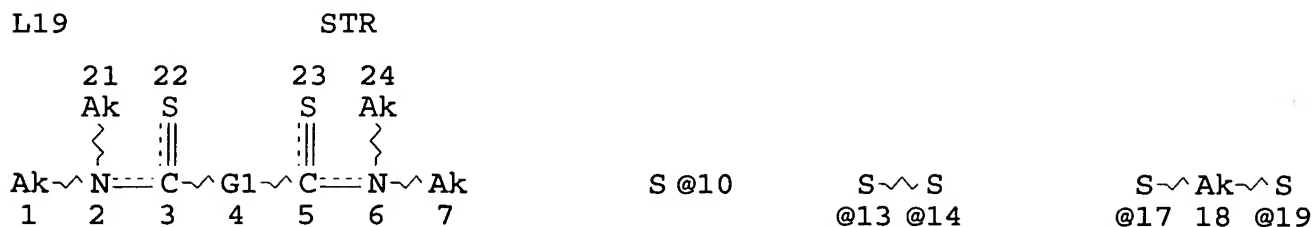
L89 736 SEA (LUBRIC? OR LUBE# OR GREAS? OR ANTIFRIC? OR ANTIWEAR?
 OR ANTICORRO? OR ANTIRUST? OR ANTIOXID? OR ANTI(W) (FRIC?
 OR WEAR? OR CORRO? OR RUST? OR OXID?) OR SLICK? OR
 SLIPP? OR OLEAGINOUS?)
 L90 555 SEA (LUBRIC? OR LUBE# OR GREAS? OR ANTIFRIC? OR ANTIWEAR?
 OR ANTICORRO? OR ANTIRUST? OR ANTI(W) (FRIC? OR WEAR? OR
 CORRO? OR RUST?) OR SLICK? OR SLIPP? OR OLEAGINOUS?)
 L91 67 SEA ((GEAR? OR ENGINE# OR CRANKCASE? OR MOTOR# OR
 TRANSMISSION? OR HYDRAUL? OR MACHINE? OR (2 OR 4 OR TWO
 OR FOUR) (W) (CYCLE# OR STROKE#)) (2A) (FLUID# OR OIL#))

FILE 'HCA'

L92 224046 SEA L90 OR L91
 L93 15 SEA L85 AND L92
 L94 11 SEA L86 AND L92
 L95 23 SEA L87 AND L92
 L96 4 SEA L88 AND L92
 L97 108 SEA L26 AND L92
 L98 14 SEA L97 AND L4
 L99 13 SEA L97 AND L18
 L100 6 SEA L97 AND L11
 L101 26 SEA L97 AND L3
 L102 1 SEA (L98 OR L99 OR L100 OR L101) NOT (L93 OR L94 OR L95)
 L103 0 SEA L102 AND (1840-2002/PY OR 1840-2002/PRY)
 L104 145 SEA L77 AND L92
 L105 20 SEA L104 AND L3
 L106 0 SEA L104 AND L11
 L107 25 SEA L104 AND L18
 L108 4 SEA L104 AND L4
 L109 5 SEA L105 AND L107
 L110 7 SEA (L108 OR L109 OR L96) NOT (L93 OR L94 OR L95)
 L111 7 SEA L110 AND (1840-2002/PY OR 1840-2002/PRY)

FILE 'REGISTRY'

=> d 125 que stat



VAR G1=10/13-3 14-5/17-3 19-5

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1
 CONNECT IS E1 RC AT 7
 CONNECT IS E2 RC AT 10
 CONNECT IS E2 RC AT 13
 CONNECT IS E2 RC AT 14
 CONNECT IS E2 RC AT 17
 CONNECT IS E2 RC AT 18
 CONNECT IS E2 RC AT 19
 CONNECT IS E1 RC AT 21
 CONNECT IS E1 RC AT 24

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 1
 GGCAT IS SAT AT 7
 GGCAT IS SAT AT 18
 GGCAT IS SAT AT 21
 GGCAT IS SAT AT 24

DEFAULT ECLEVEL IS LIMITED

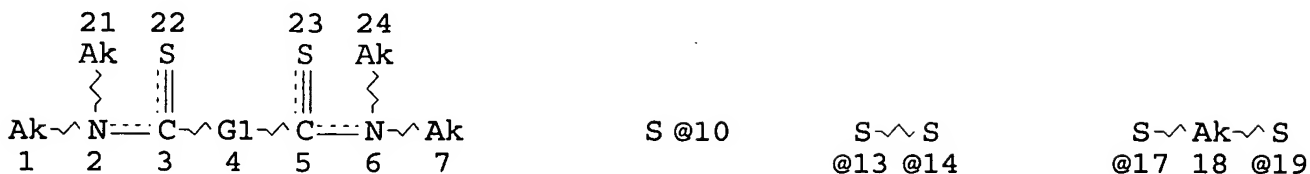
ECOUNT IS M3-X30 C AT 1
 ECOUNT IS M3-X30 C AT 7
 ECOUNT IS M3-X30 C AT 21
 ECOUNT IS M3-X30 C AT 24

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L21 STR



VAR G1=10/13-3 14-5/17-3 19-5

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1

CONNECT IS E1 RC AT 7
CONNECT IS E2 RC AT 10
CONNECT IS E2 RC AT 13
CONNECT IS E2 RC AT 14
CONNECT IS E2 RC AT 17
CONNECT IS E2 RC AT 18
CONNECT IS E2 RC AT 19
CONNECT IS E1 RC AT 21
CONNECT IS E1 RC AT 24
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 1
GGCAT IS SAT AT 7
GGCAT IS SAT AT 18
GGCAT IS SAT AT 21
GGCAT IS SAT AT 24
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE
L23 526 SEA FILE=REGISTRY SSS FUL L21
L25 61 SEA FILE=REGISTRY SUB=L23 SSS FUL L19

100.0% PROCESSED 526 ITERATIONS
SEARCH TIME: 00.00.01

61 ANSWERS

=> file hca
FILE 'HCA'
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=> d 193 1-15 cbib abs hitstr hitind

L93 ANSWER 1 OF 15 HCA COPYRIGHT 2006 ACS on STN
142:8976 **Overbased borated lubricating oil ashless
dispersants, detergents, and antioxidants**
for low-phosphorus oils with extended drain intervals. Roby,
Stephen H.; Mayer, Richard J.; Ruelas, Susanne G. (Chevron Oronite
Company LLC, USA). U.S. Pat. Appl. Publ. US 2004242433 A1 20041202,
15 pp., Cont.-in-part of U.S. Ser. No. 285,753, abandoned.
(English). CODEN: USXXCO. APPLICATION: US 2004-833562 20040428.